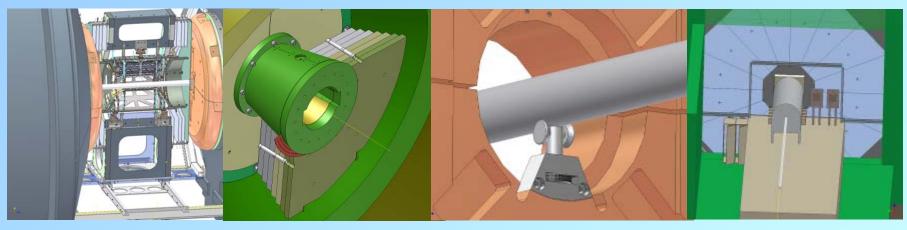




PHENIX WEEKLY PLANNING



5/27/2010 Don Lynch



PHENIX

Ongoing Tasks for Run 10 Task

Start	Date	End	Date
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Commissioning Tests (HV, Mixed gas and Freon only)	5/27/2010	6/11/2010
Send mass flowmeters out for recalibration (DC/PC, MuID, TOF.W)	In Progress	6/30/2010
AH Crane 110 switch for lockout	In Progress	6/30/09



This Week:

- Today's Brief Maintenance/access:
 - RPC final prep for commissioning tests: HV & XMIt, Cable management, grounding issues with racks and cable trays fixed
 - · HBD scintillator Tests
 - · Other work?
- Run 10 tech support
- Future upgrade support as necessary
- 2010 summer shutdown prep continues:

VTX & BP assembly/installation parts & fixtures procurement & fabrication

RPC3 S assembly/installation fixtures parts & fixtures procurement & fabrication

- PHENIX Run 10 data taking ends
- · RPC3N cosmic ray test/commissioning begins





New Ar Dewar and PHENIX Empty Gas bottle storage slab

Grouted?





List of Gas Lines (51 total so far)

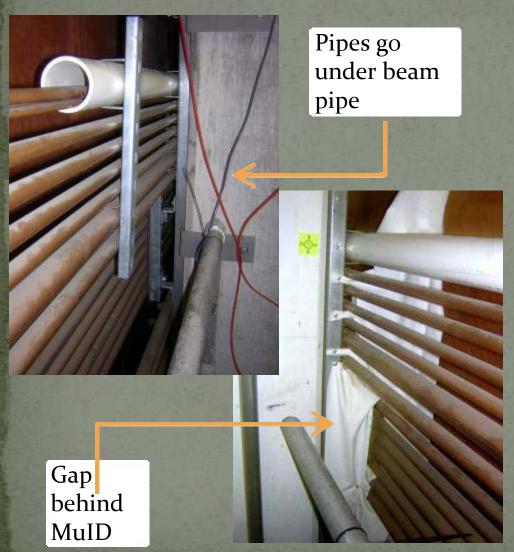
"Front Row" in GMH Go to West Side in the IR

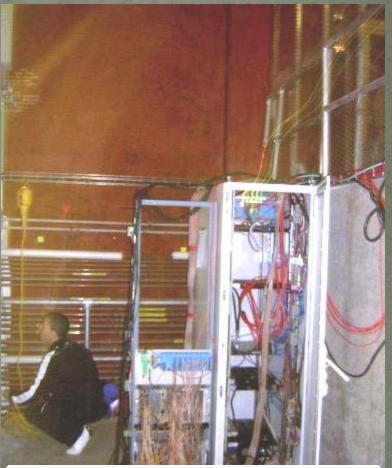
Rack purge air supply	1-1/8"
Detector Purge Air Supply	- 1-1/8"
North MuID Return	
MuID North Supply	1-5/8"
MuID North Purge Supply	
MuTr North Supply	1-5/8"
MuTr North Return	1-5/8"
DC/PC BVP Return (dead)	1-5/8"
Nothing	2-5/8"
Beam-Beam N2 Cooling	5/8"
Helium Bag Supply	5/8"
TOF West Supply	5/8"
West RICH Control #1	3/8"
West RICH Control #2	3/8"
West RICH Control #3	
West RICH Buffer Return	3/8"
West RICH Supply	1-1/8"
MuTr South Supply	1-5/8"
MuTr South Return	1-5/8"
MuID South Return	-1-1/8"
MuID South Supply	1-5/8"
MuID South Purge Supply	-1-1/8"

"Back Row" in GMH Go to East Side in the IR

RPC	-1/2"
East DC Supply	-5/8"
West DC Supply	-5/8"
Aerogel Nitrogen	7/8"
TRD Nitrogen	7/8"
Nothing	7/8"
West DC Return	-1-5/8"
RPC Vent (Not Used)	-1-1/8"
Nothing	5/8"
Nothing	3/8"
Nothing	3/8"
East DC Return	
TEC BPV Return (Dead)PC Supply	1-1/8"
PC Supply	1-5/8"
TEC Supply	-1-5/8"
DC/PC Return TEC Return	2-5/8"
East RICH Supply	
TEC CO2 Supply	
East RICH Control #1	
East RICH Control #2	
East RICH Control #3	
East RICH Buffer Return	3/8"

South West in Tunnel





All pipes have to be removed to install RPC.

5/27/20105/12/2010



Novec Chiller

Vendor	Chiller	KiloWatts	Flow	Materi al	Del	Price Each
Advantage	M1-5W (BNL 49433)	7032@15F	12gpm @52psi	Cu,	6-7wks	\$9,365
Advantage	M1D-15W (BNL 49255)	22000@15F	36gpm@55psi	Cu	6-7 wks	\$17,000
Affinity	PWK-040K- BE37CBD2 (BNL 1335)	3000@16F	5 gpm@60psi	Cu	8-10wks	\$22,519
Affinity	PKW-060k- BE44CBD2 (BNL 1262-2)	6000@15F	8gpm@60psi	Cu	8-10wks	\$27,225
Affinity	Custom (BNL 1250)	6000@17F	10gpm@ 30psi	SS,Ni	12- 14wks	\$41,667

Big Wheel chiller

Vendor	Chiller	KiloWatts	Flow	Material	Del	Price Each
Advantage						
Affinity	Custom FAA-032L- ED21CBD4 (BNL1343)	9800@68F	16gpm@35 psi	SS, NI	12-14wks	\$11658

DC West Maintenance Probable Time Schedule

Dates: July 26 - Aug. 13. 15 working days

Step 0. 1/4 day

General planning meeting

Step 1. 3 days

Start with DAQ running and HV "in hands"

Start gas flow 2.5-3 days

Dissemble electronics, installation of dummy grounds

Transportation boards to SBU, start board testing

Step 2.

Work on HV cards and HV problems, 2-3 days

?? Cut the mylar window for wire removal ??, 1-2 days

Final test with HV

Work on electronics and its test at SBU - 5-7 days

Step 3.

Start signal board and ASD/TMC boards mounting after HV work finished. 2-3 days

Step 4.

Final electronics assembling and testing. 3-5 days

Next Week



No Scheduled Maintenance Access?

RPC3N cosmic ray test/commissioning support

Track and prep for 2010 shutdown

Prepare for VTX, RPC35, BP & absorber installation reviews

Fabrication for VTX support and Bigwheels

Design of installation tools and fixtures for VTX

Design of installation tools and fixtures for absorber

Future upgrades support

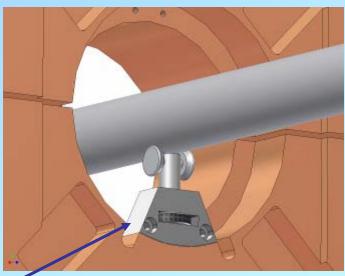
Run 10 support

	2010 Tasks
PH ENIX	Run 10
Т	VTX Installation Plan (Final)
Ė	RPC3S Installation Plan (Final)
C	Design support structure, alignment
¥2}	Specify and procure electronics rac VTX
Ho	Fabricate beam pipe supports
A	Beampipe NEG coating (CERN)
$\hat{\mathcal{L}}$	Fabricate/procure parts for RPC3 S
	Fabricate/procure parts for VTX in
Su	End of run 10
P	Installation Reviews RPC3N (incl. ab
P	End of Run Party
0	Prep IR for shutdown
R	Complete unfinished business for Mi
Τ	Install Beam pipe
2	Install VTX
0	Install RPC3 South
-0	2010 Shutdown Other Tasks

2010 Tasks	Start Date	End Date
Run 10	In progress	6/21
VTX Installation Plan (Final)	In progress	5/31
RPC3S Installation Plan (Final)	In progress	5/31
Design support structure, alignment scheme for VTX	In progress	3/31
Specify and procure electronics racks and support equipment VTX	for In progress	5/31
Fabricate beam pipe supports	In progress	5/1
Beampipe NEG coating (CERN)	In Progress	7/15
Fabricate/procure parts for RPC3 S installation	In progress	5/1
Fabricate/procure parts for VTX installation	In progress	6/1
End of run 10	~6/14	6/23
Installation Reviews RPC3N (incl. absorber), VTX (incl beamp	oipe) 6/14	6/25
End of Run Party	6/18	6/18
Prep IR for shutdown	6/1	7/1
Complete unfinished business for MuTrgr FEE & RPC3 North	6/23	8/1
Install Beam pipe	7/1	9/1
Install VTX	8/1	11/1
Install RPC3 South	6/23	11/1
2010 Shutdown Other Tasks	6/23	12/1







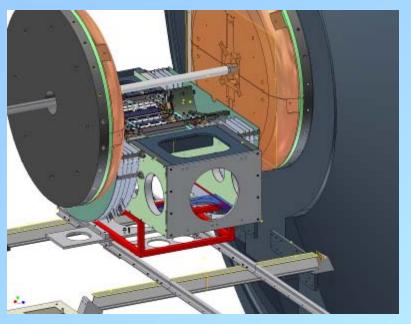
BP support components from CS

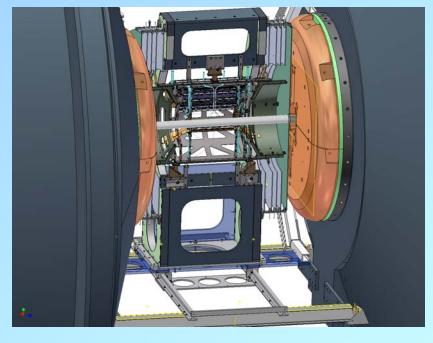
North MPC Cavity BP support



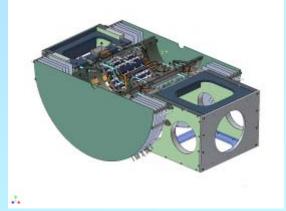






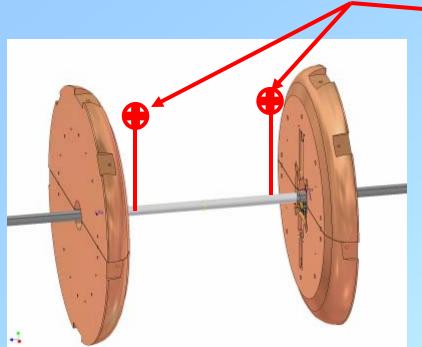






VTX Support Structure Base Assembly Design In Progress Fixtures being re-designed at PHENIX





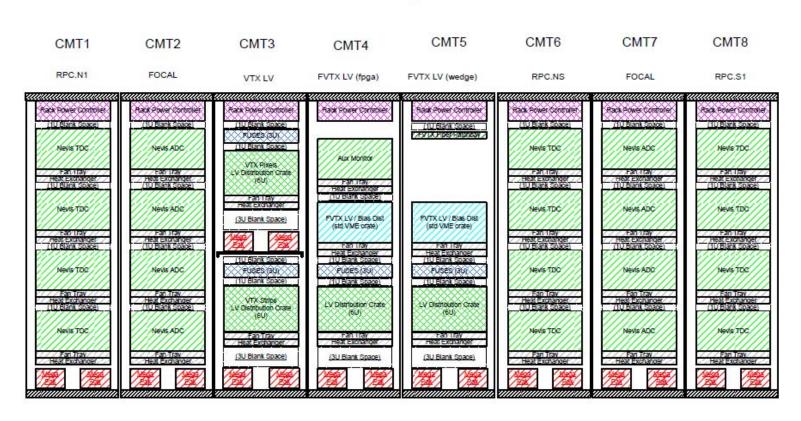
Survey Targets and fixtures TBD Must be able to align BP to req'd radial and angular accuracy without VTX and with VTX in clamshells open configuration.

On Deck in the Design Room



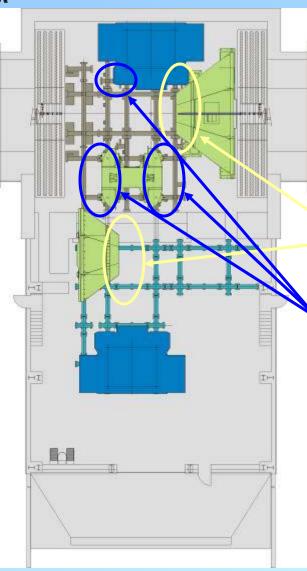
Bridge Electronics Concept

PHENIX Bridge Racks



5. Boose 3/26/2010





We expect the major PHENIX carriages and magnets to be in this configuration for most of August 2010. During this period the old PHENIX beampipe is removed, the north and south side of the CM is prpeapared for the absorber, the absorber is installed, work is done on MuTr and MuTrigger station 1, North and south and DC west.

Use standard scaffolding to access work in these areas

Use manlift(s) to access work in these areas

Work on EC, MuTr and MuTrigger Stations 2 and 3, and other subsystems in the EC and WC may also be performed during this period by subsystem experts, but PHENIX tech assistance will be extremely limited or not available and additional scaffolding (e.g. inside Muon magnets will not be available), and manlifts will not be available for these efforts.

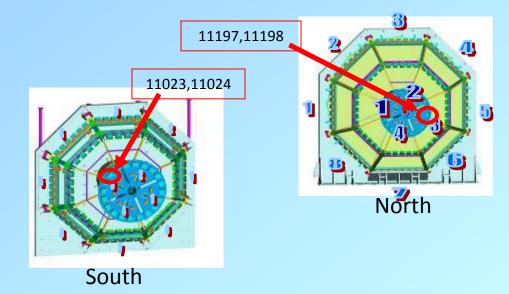
Shutdown 2010 - muTr FEE repairs

PHENIX

FEE - one FEM in each station-1
• 11023, 11024 - south S1 Q3 C2 (top);

may be glink/clink RX module

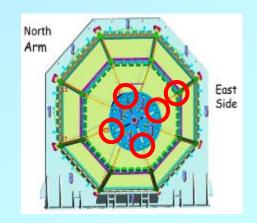
• 11197, 11198 - north S1 Q3 C4 (bottom east); probably controller



Shutdown 2010 - Calibration cable termination repairs

Calibration cable connections - fix terminations

- north 51 O2 G1; O3,4 G3; O6 G3; O8 G2 all infinite termination now
- north S1 O3,4 G1,2 57 ohms (rest all 105 ohms)
- north S2 O5 G1 $\frac{1}{2}$ gain of all others (probably can't reach)



PH ENIX

Shutdown 2010 - MuTr HV

- disabled but cannot be reached (S271-6, S311-0, S331-2, N222-6, N341-0)
- 5381-5 high current also can't be reached?

Nothing can be done w/o scaffolding





Shutdown 2010 MuTr/MuTrigger - Other

muTrg, Itaru et al.

- south S3 O7 threshold problem
- north 53 O1 high noise (not reachable); 53 O4 bad ADTX board

South arm disconnect/reconnect (fibers, power)

- lower glink/clink crates on top of eyebrow (to fit thru big IR door)
- move out/in; reconnect & test

Anode terminations

- station-1 gap-1 both arms recap & terminate?
- station-2 all gaps, where we can reach w/o scaffolding (2 lower octants/arm) terminate (under dry-air manifolds)?





New Beampipe Pre-Shutdown Prep

Task	<u>Due By</u>	<u>NOTES</u>
Send BP transitions & spool to SAES for NEG Coating	Done	MAPES
Send beampipe to CERN for NEG Coating	Done	Mapes
Fabricate beampipe supports	Done?	In Progress
Design BP installation and survey tools/fixtures	5/31/2010	In Design queue
Memorial Day: Lab Holiday	5/31/2010	Enjoy the weekend
Choreograph removal of old beampipe and installation of new (final)	6/1/2010	In Progress
Test and inspect beampipe supports	Done	
Beampipe Installation Review (Final)	6/18/2010	Y. Makdisi ESRC
Receive bp back at BNL	7/31/2010	Mapes, Riggers to move from rec'g to CAD
Receive BP transitions & spool back at BNL from SAES after NEG Coating	7/31/2010	Mapes, Riggers to move from rec'g to CAD
Final acceptance and inspection bp and sections	8/6/2010	Mapes, Riggers to move from CAD to PHENIX
Fabricate BP installation and survey tools/fixtures	8/6/2010	cs

VTX Subassembly, Top Assembly, Installation and Integration Prep

Inst	allation and Inte	gration Frep
<u>Task</u>	<u>Due By</u>	<u>NOTES</u>
Fabricate/prepare/procure assembly workspace, tools and fixtures	Done	
Mechanical re-design of BigWheels	Done	
Specify Cooling sensor & BigWheel system components	Done	
VTX Installation Plan	5/31/2010	
VTX Survey Plan	5/31/2010	Consult w/ F. Karl
Memorial Day: Lab Holiday	5/31/2010	Enjoy the weekend
Installation Review (ESRC)	6/18/2010	Set up With Y. Makdisi
Beampipe & VTX Installation Work Permits	6/18/2010	D. Lynch, CAD Safety Approval
Design fixtures, techniques and mockups for installation, alignment and survey	6/15/2010	
Specify components, assembly tools and fixtures, electronics for racks, cables, cable management etc.	6/15/2010	
BigWheel Fabrication & Procurement	7/15/2010	
Receive, inspect, test, rework and qualify components, assembly tools and fixtures, electronics for racks, cables, cable management etc.	7/15/2010	
Cooling system procurement	9/30/2010	Pisani Coordinate with CAD Coolin Water, Electricain



VTX Subassembly, Top Assembly, Installation and Integration Prep (cont'd)

<u>Task</u>	<u>Due By</u>	<u>NOTES</u>
Fabricate/procure detail components for installation, support and alignment, including station 1 work platforms	6/30/2010	
Fabricate fixtures, techniques and mockups for installation, alignment and survey	6/30/2010	
4 th of July Holiday	7/5-7/6/2010	Enjoy the long weekend
Receive & inspect components (installation, support, alignment & Survey)	8/15/2010	
Assemble Hemisperes	8/15/2010	
Mock installations/alignments, bench tests	8/31/2010	
Cooling system procurement	9/30/2010	



RPC3 Pre Shutdown Prep

<u>Task</u>	<u>Due By</u>	<u>NOTES</u>
Prepare Installation Plan	5/31/2010	In Progress
Design RPC Absorbers	Done	
Design Absorber Installation fixtures & tools	5/31/2010	
Memorial Day: Lab Holiday	5/31/2010	Enjoy the weekend!
Receive purchased parts	6/4/2010	In Progress
Fabricate PHENIX parts	6/15/2010	In Progress
Receive and inspect CS fabricated parts	6/15/2010	In Progress
Prepare work permit for installation	6/15/2010	D. Lynch, CAD Safety Approval
Assemble, test and burn-in 1/2 octants	6/18/2010	In Progress
Pre-Assemble base components at PHENIX	6/18/2010	
Fabricate Absorber Details	7/31/2010	RPC Group and PHENIX
Fabricate/procure Absorber Installation fixtures & tools	7/31/2010	

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Start of Shutdown

	Ondraown	
<u>Task</u>	<u>Due By</u>	NOTES
DAQ Tests	6/4/2010	
Purge Gas From Detectors	6/8/2010	PHENIX, CAD remove LOTO
End of Run 10	~6/14/2010	
EOR Party	6/18/2010	6/18/2010
Remove BP Collar	6/18/2010	As early as possible after 6/2
Move MMS south	6/18/2010	As early as possible after 6/2
Prep EC for move to EC	6/18/2010	As early as possible after 6/
Close North and South BP gate valves and lock closed for until new BP is installed	6/18/2010	CAD Vac Group
Open and disassemble wall	6/18/2010	PHENIX techs, riggers
Remove EC ladder and fold platforms	6/25/2010	Carpenters & Riggers
Move EC to AH	6/28/2010	PHENIX Techs
Install cart	6/28/2010	PHENIX Techs
Move Collars to AH	6/30/2010	PHENIX Techs
Install decking	6/30/2010	PHENIX Techs
Install Manlift	6/30/2010	PHENIX Techs
Remove RPC2 Prototype, support brackets, cabling & Piping	6/29/2010	PHENIX Techs, CAD Techs, Electrican
Remove MMS east vertical lampshade	6/30/2010	CAD TEchs

PH**ENIX**

Beampipe De-installation

Task	Due By	NOTES
4th of July Holiday & Floating Holiday	7/5&7/6/2010	Enjoy
Remove HBD's and HBD cables Remove RXNP's and cables	7/9/2010	Concurrent with Start of shutdown tasks
Remove MPC's	7/16/2010	Concurrent w MPC's
Remove BBC's	7/16/2010	Concurrent with BBC's
Position MMS for Vacuum break	7/19/2010	
Install Temporary supports for old BP	7/19/2010	Supports TBD
Break vacuum on north side of MMS	7/19/2010	CAD Vac Techs
Remove south bellows	7/19/2010	CAD Vac Techs
Move MMS north, remove spool and south3-5 transition	7/20/2010	
Move the MMS south & Prep MMS for move to AH	7/23/2010	Begin MMS prep with shutdown start
Move CM south, remove north bellows	7/23/2010	PHENIX & CAD Vac Techs
Move old Be bp south into MMS and move CM north	7/23/2010	PHENIX Techs
Move MMS to shutdown park position	7/23/2010	PHENIX Techs
Remove old Be BP	7/23/2010	PHENIX Techs
Move CM south and east	7/23/2010	PHENIX Techs
Remove north 3 to 5 transition	7/23/2010	PHENIX Techs

<u>Task</u>	<u>Due By</u>	NOTES
Prepare north 3 to 5 transition for installation with roller guides, bakeout wrap and thermocouples	7/23/2010	PHENIX Techs & CAD Vacuum Techs
Prep CM North and South for Absorber and install	8/13/2010	PHENIX Techs
Install north 3 to 5 transition in MMN	8/13/2010	PHENIX Techs
Install new Be pipe in CM on temp supports	8/17/2010	PHENIX Techs
Move CM back to beamline & connect $\ $ new Be BP to 1-5/8 transition and bellows and $\ $ north 3-5 transition	8/17/2010	PHENIX TechsPHENIX Techs
Move CM to run position	8/18/2010	PHENIX Techs
Prealign Be/Alum pipe with transitions attached on new BP supports At MPC north BBC south and north nosecone	, 8/19/2010	Surveyors & PHENIX Techs
Prepare south 3 to 5 transition for installation with roller guides, bakeout wrap and thermocouples	8/19/2010	PHENIX Techs
Install south 3 to 5 transition, bellows and 1-5/8 to 3" transition in MMS	8/20/2010	PHENIX Techs
Move MMS back into IR on beamline	8/20/2010	PHENIX Techs
Move CM south, slide Transition assembly in MMS north and connect to new Be Bl	P 8/20/2010	PHENIX Techs & CAD Vacuum Techs
Move CM and MMS north and install south spool. Leak check. Move MMS South	8/27/2010	PHENIX Techs
Install temporary bakeout supports	8/27/2010	PHENIX Techs
Install bakeout blankets and monitoring	8/27/2010	CAD Vacuum Techs
Labor Day Lab Holiday	9/6/2010	Enjoy
Bakeout New BP and activate NEG coating	9/10/2010	CAD Vacuum Techs
Leak check BP	9/10/2010	CAD Vacuum Techs
Re-install MPC's including Cables and services Re-install BBC's including Cables and services	9/24/2010	PHENIX Techs Concurrent efforts
Move CM to run position	9/24/2010	PHENIX Techs
Final alignment of new BP	10/1/2010	PHENIX Techs



<u>Task</u>	<u>Due By</u>	<u>NOTES</u>
Install and align VTX rail attachment hardware to CM	10/1/2010	PHENIX Techs Install during bakeout?
Install and align VTX rails parallel to beam line	10/8/2010	PHENIX Techs
Install and align VTX rails perpendicular to beam line	10/8/2010	PHENIX Techs
Install and align west half detector module	10/15/2010	PHENIX Techs & Survey
Install and align east half detector module	10/22/2010	PHENIX Techs & Survey
Install mechanical support structures for VTX services and electronics	10/29/2010	PHENIX Techs Concurrent Effort
Install Cable trays	10/29/2010	
Install racks	10/29/2010	ı
Install chiller	10/29/2010	
Install cables, plumbing	10/29/2010	
Connect cables and plumbing	10/29/2010	٧
Thanksgiving and Black Friday Holiday	11/25 & 11/26/2010	Enjoy
Test and commission	12/1/2010	PHENIX Techs



	<u>Task</u>	<u>Due By</u>	<u>NOTES</u>
K.	Remove wiring, walkovers, FCAL and scintillator hardware that would otherwise interfere with installation	7/2/2010	PHENIX Techs
	4th of July Holiday	7/5 & 7/6/2010	Enjoy
	Remove/relocate shielding	7/9/2010	Riggers
	Remove crystal palace & vapor barrier	7/16/2010	CAD
	Inspect Gap 5 south for legacy items/problems	7/23/2010	PHENIX Techs
	Address legacy items/problems as convenient prior to shutdown start	7/30/2010	PHENIX Techs
	Install lighting & relocate sensors as necessary	8/6/2010	Electrrician
	Temporarily relocate, re-position or otherwise address interfering piping, cable trays	8/20/2010	PHENIX (w/ CAD Help?), Electrician
	Remove RPC prototype	8/20/2010	PHENIX/CAD Techs
	Pre-survey ½ octant reference points	8/27/2010	PHENIX Techs & Surveyors
	Drill and tap $\frac{1}{2}$ octant and rotating piston mounting points	8/31/2010	PHENIX Techs
	Build/install access and work platforms for walk on top of MuID steel including stairs from MMS eyebrow	8/31/2010	Carpenters
	Final cleaning and prep of gap 5 for grouting	9/3/2010	PHENIX Techs
	Labor Day Lab Holiday	9/6/2010	Enjoy
	Pre-installation orientation meeting with masons and riggers	9/7/2010	PHENIX Techs Masons & Riggers
	Position lifting equipment in tunnel	9/10/2010	Riggers
	Move east and west base structures into south tunnel and assemble on east and west sides of pedestal respectively. Include translation control fixtures	9/10/2010	Riggers & PHENIX techs

RPC3 South Installation

<u>Task</u>	<u>Due By</u>	<u>NOTES</u>
Install and align base structures on east and west sides of gap 5	9/14/2010	PHENIC Techs & Riggers
Prepare for grouting	9/15/2010	PHENIC Techs 8 Masons
Install grout	9/16/2010	PHENIC Techs 8 Masons
Install pitch control rails on pedestal and gap 5 east & west inner walls	9/17/2010	PHENIC Techs
Install upper suspension support hardware	9/17/2010	PHENIC Techs
Install ½ octants, 2 at a time in accordance with work plan/work permit Transport ½ octants 2 at a time from RPC factory to		
south tunnel on angled transport carts		
Transfer $\frac{1}{2}$ octants from angled transport carts one at a time to temporary free standing and re-orienting roller fixture (fore and aft wheels and axel)		
Lift (and re-orient if appropriate) $\frac{1}{2}$ octant and install into base structure, previously installed $\frac{1}{2}$ octant or upper suspension hardawre as appropriate per work plan		
Pre-align each ½ octant as installed		
Perform electrical integrity tests before proceeding to next pair of ½ octants		
After all $\frac{1}{2}$ octants are in place and tested, join east and west halves of full south station 3 detector and align to survey markers	10/15/2010	Riggers & PHEN



RPC3 South Integration

<u>Task</u>	<u>Due By</u>	<u>NOTES</u>
Final survey	10/22/2010	Surveyors
Install new cable trays and piping supports	10/29/2010	Electrician, earlier if possible
Re-install MuID wiring and pipes	11/5/2010	PHENIX Techs
Install south thermal/vapor barrier	11/19/2010	CAD
Thanksgiving and Black Friday Holiday	11/25 & 11/26/2010	Enjoy
Re-install MuID gas rack	11/30/2010	PHENIX Techs
Commissioning and final acceptance tests	11/30/2010	RPC Group
Install RPC3 HV, LV and signal wiring and gas lines	11/30/2010	PHENIX Techs
Install RPC3 South gas distribution rack	11/30/2010	PHENIX Techs
Re-install shielding	11/30/2010	Riggers
Install RPC3 South environmental controls (heaters and thermostats)	11/30/2010	Electrician

TECHNICAL NUPPORT 20-0

Shutdown 2010 Other Work

	nardown 2010 Om	
Task support	Due By	<u>NOTES</u>
RPC3 North unfinished business	7/15/2010	Electronics and cabling, grounding issues, environmental controls
MuTrigger FEE unfinished business	7/15/2010	MMS cable trays,
RHIC Summer Sunday Tour	8/15/2010	During bakeout
DC/PC maintenance/repair	11/15/2010	FEM and wire troubleshooting and repairs, major efforts will require longer shutdon
Thanksgiving and Black Friday Holiday	11/25 & 11/26/2010	Enjoy
PHENIX Survey Review	11/30/2010	PHENIX Techs & Survey
Procedure Updating	11/30/2010	PHENIX Engineering
FVTX support	11/30/2010	As required
FoCal	11/30/2010	As required
Gas Mixing House maintenance & Repair	11/30/2010	Tasks TBD
PHENIX Infrastructure maintenance, repair, upgrade	11/30/2010	TBD
Gas Pad expansion completion (grouting)	5/31/2010	Tasks TBD
Gas Pad: new gas storage details	11/30/2010	Tasks TBD
Gas Pad: New Ar Dewar	Done	Contractor & PHENIX Techs
Gas Pad services new dewar support, maintenance and improvements	11/30/2010	TASKS TBD



Shutdown 2010 Other Work (Cont'd)

Task support	<u>Due By</u>	<u>NOTES</u>
AH Flood prevention improvements	11/30/2010	Tasks TBD
IR Bridge Electrical service upgrade	11/30/2010	Support for 4 full racks in 2010, 4 more (8 total) in future, PHENIX Techs & Electrician
RPC Factory Support	11/30/2010	Tasks TBD
Rack Room upgrade	11/30/2010	Tasks TBD
PHENIX Design Documentation	11/30/2010	PHENIX Engineering
CM Crane	11/30/2010	Tasks TBD
CM alignment stops	11/30/2010	TBD
Gas System maintenance, repair, upgrade	11/30/2010	Tasks TBD
Other subsystem maintenance, repair/upgrade	11/30/2010	Tasks TBD
Future upgrade support	11/30/2010	RPC1, RPC absorbers, FVTX, FOcal, other Tasks TBD
Prepare for Run 11: EC platforms fold up in AH, fold down in IR, EC Equipment lift take down in AH, Install in IR, Install shielding wall base and build shielding wall & Install MMS Lampshade	11/30/2010	Normal end of shutdown tasks, typically taking 3-4 weeks: Riggers & Carpenters, CAD Techs
Run 11 Start	12/1/2010	
End of Shutdown Party	~12/3/2010	<u> </u>

PH ENIX

2009 Building Maintenance Issues

 Roof leaks in utility bathroom at northwest corner behind tech offices, over door between rack room and assembly hall and over door between control room and elect. ass'y room.



- General maintenance for Trailer Offices (in progress)
- Trailer Office Modifications planning in progress (new exterior siding)
- Roof leaks in laser room and IR (southeast corner)
- Flooding in AH/ Driveway heaving [Lake PHENIX]











To be located in front of AC on east side of GMH

Proposed shed addition to Gas Mixing house

Purpose: to house/store larger bottles for R134A to keep up with TOF West & RPC requirements. No flammable gas, standard shed with heat. Barn style doors desirable. Palce on asphalt with no threshold to allow bottle management with pallet lifter.



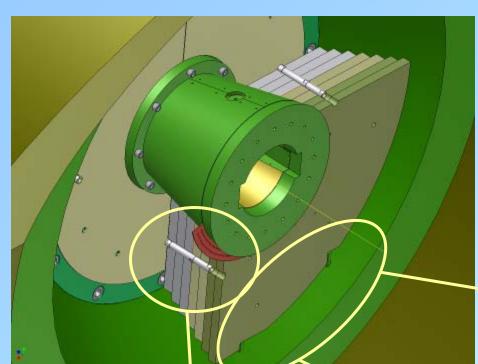
PHENIX Procedure Review Current Status:

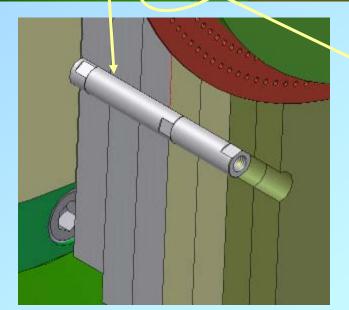
- 147 Procedures Identified
- 84 Made Inactive (not currently in use, will require revision to re- activate if and when necessary, available for reference purposes)
- 10 CAD procedures relevant to PHENIX, all are current and up-to-date.
 (CAD web access to these documents is not up to date)
- 42 PHENIX approved procedures.
 - 1 is currently under review
 - 41 are current and up-to-date (2 updated this week)
- 11 Proposed/Draft Procedures (never previously formalized)

Web retrieval of latest procedures now available from PHENIX Internal:

http://www.phenix.bnl.gov/WWW/INTEGRATION/ME&Integration/DRL_procedures.htm

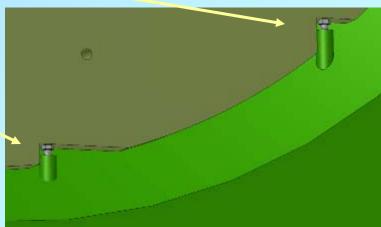
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RPC Absorber Final Design

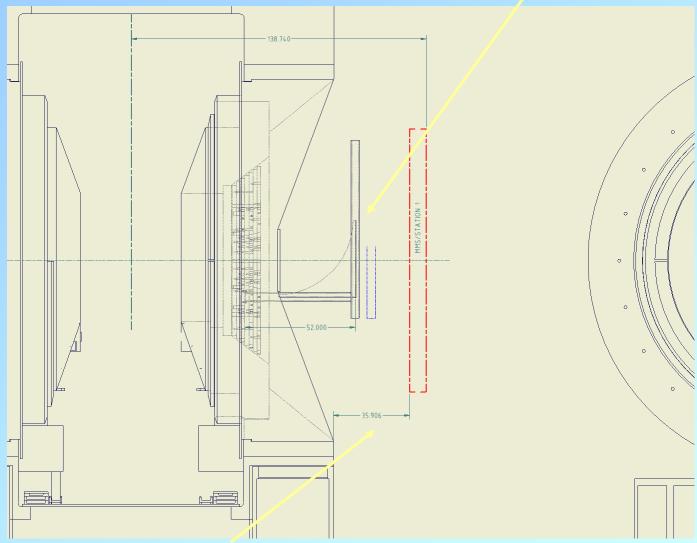
- Welded & tapped vertical support bossess
- · 3 stage positioning rod





Absorber Instalation Concept

Lifting fixture, needs counterbalance



Clearance to Station 1 (if can't be installed when CM is off beam line)



Safety, Security, Etc.

- 1. C-AD Access Card Inventory:
 - Blue Card: go to Ann-Marie's office and get card read.
 - Pink Card: Read at any access gate or go to Ann-Marie's If you haven't done this yet do it today When card is read, green light indicates OK Red = NG
- 2. Final ESRC review of installation plans for RPC3S + Absorbers and VTX + beampipe. All other shutdown work requires work planning but not an ESRC review (i.e. does not represent a change to PHENIX configuration) Tentative date June 17.
- 3. ISSM awareness notice from Mike Zarcone:
 - Please remember to lock your offices and buildings, especially over the long Holiday weekend. Security reports 55 unsecured buildings found this FY with 7 already in May.
- 4. Be extra careful on the road this weekend. Holiday traffic is notoriously dangerous due to volume and increased impaired driving. Barbecues, sunbathing, swimming, and all the fun things in life, can be dangerous when appropriate precautions are ignored.

Rack Room Gutter Cleaning

- Soon we are replacing the main Event Builder Switch with our new flagship switch.
- Means a lot of cable pulling in the "Event Builder Aisle"
- In particular the cable tray on top of the rack has a lot of sediments which would benefit from a start from scratch

This is how it looks

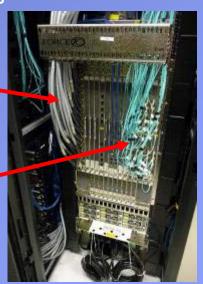


Standard Gigabit ports

"MRJ-20" cable bundles with 6
Gig ports each go to patch
panels (or directly to the
machines) May make our cable
distribution easier, bring a few
bundles to the racks

10GbE ports

The future Switch



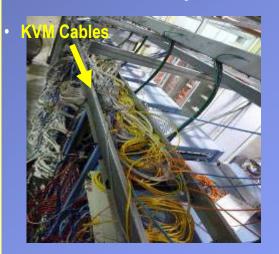
Timeline

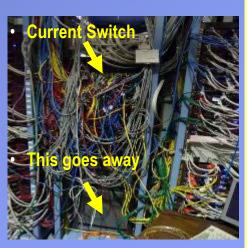
The Task

- We'll rig up a few alternate connections to the first two racks to keep them alive (I do that)
- We disconnect all network cables (about 150 or so) and pull them out, roll them up without tangling them up, remove labels
- More than 100 are local to the rack row, about 50 go somewhere else
- There are fibers mixed in, they have to go out first
- Not by count but by bulk the KVM cables are the biggest, they stay, but it looks like many of them are on top
- From above this doesn't look like much, but on the ground it looks like a big deal

- When our run ends, we can get going (early June)
- Find some room to coil up the pulled cables
- Devise a good labelling scheme for the future
- Then think about putting the new stuff in
- 2 weeks? Reasonable?

Tray from above and below





PH ENIX

Where To Find PHENIX Engineering Info









Memorial Day Lab Holiday next Monday - No Work

Take time to remember those who gave up their lives so we could be FREE

Links for the weekly planning meeting slides, archives of past meeting slides, long term planning, pictures, videos and other technical info can be found on the PHENIX Engineering web site:

http://www.phenix.bnl.gov/WWW/INTEGRATION/ME&Integration/DRL_SSint-page.htm

